# DEA - CHEMICAL INDUSTRY CONFERENCE

**BOSTON, MASSACHUSETTS** 

**SEPTEMBER 2004** 



## U.S. Department of Justice **Drug Enforcement Administration**Office of Diversion Control

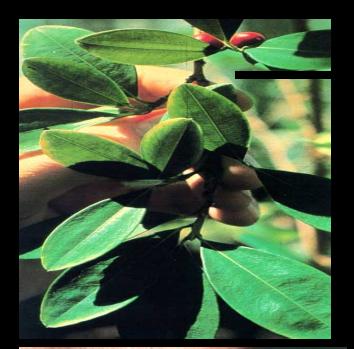
#### Catherine E. Gentry

Program Analyst

DEA Headquarters ODII Washington, D.C. 20537

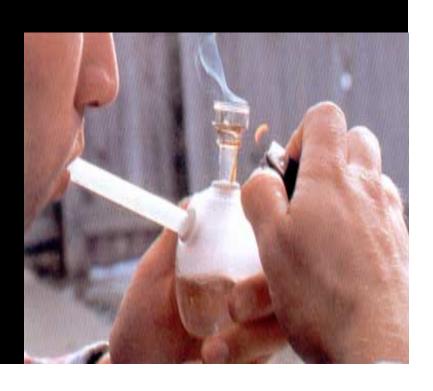
Telephone: (202) 307-4260

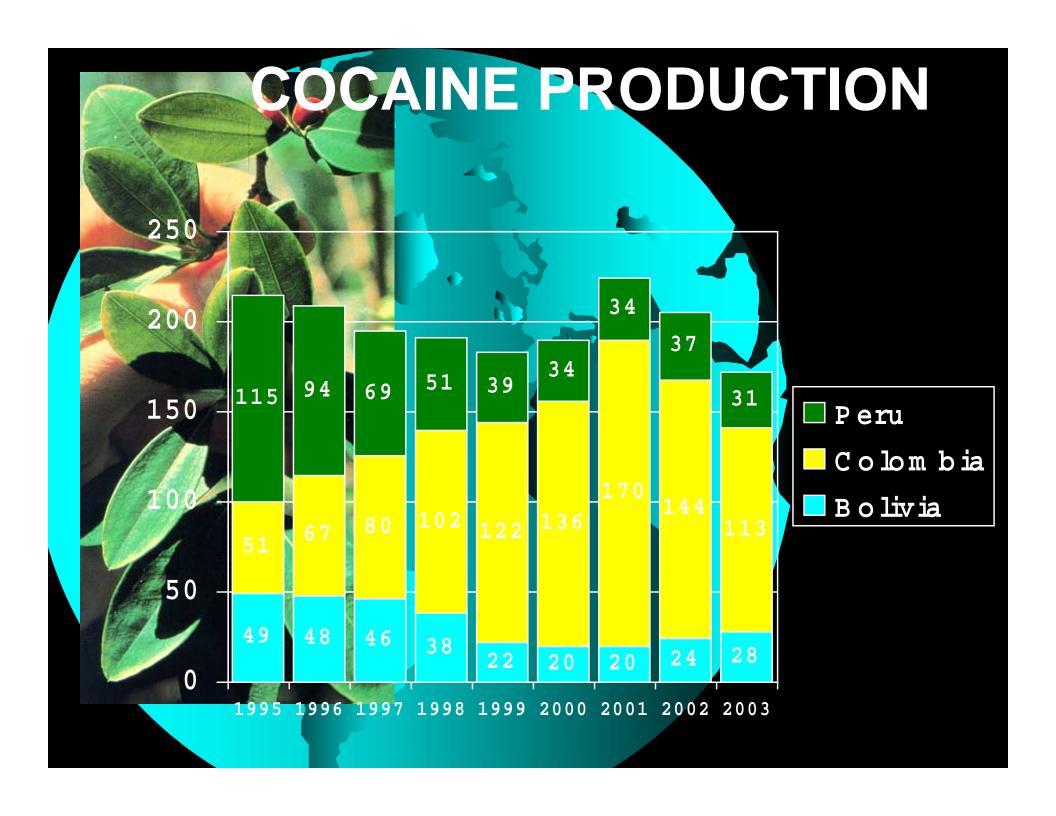
Fax: (202) 307-4343



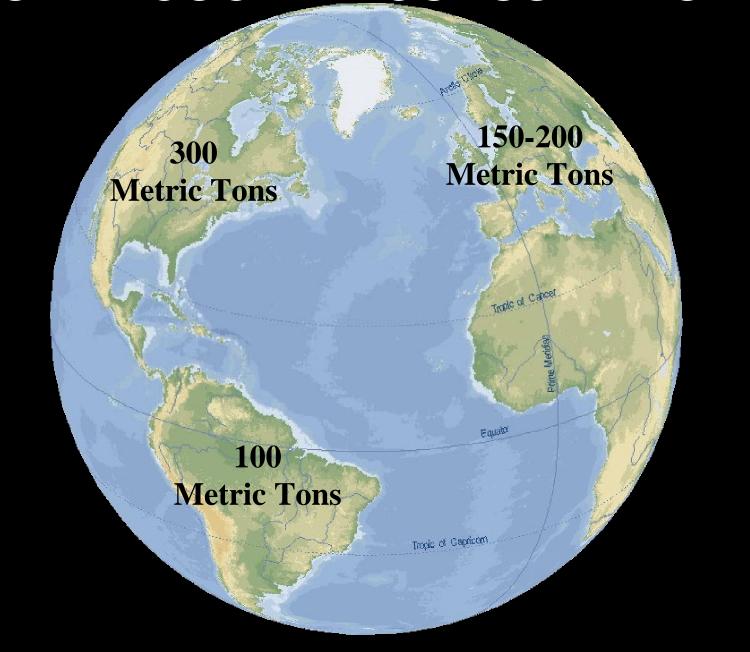




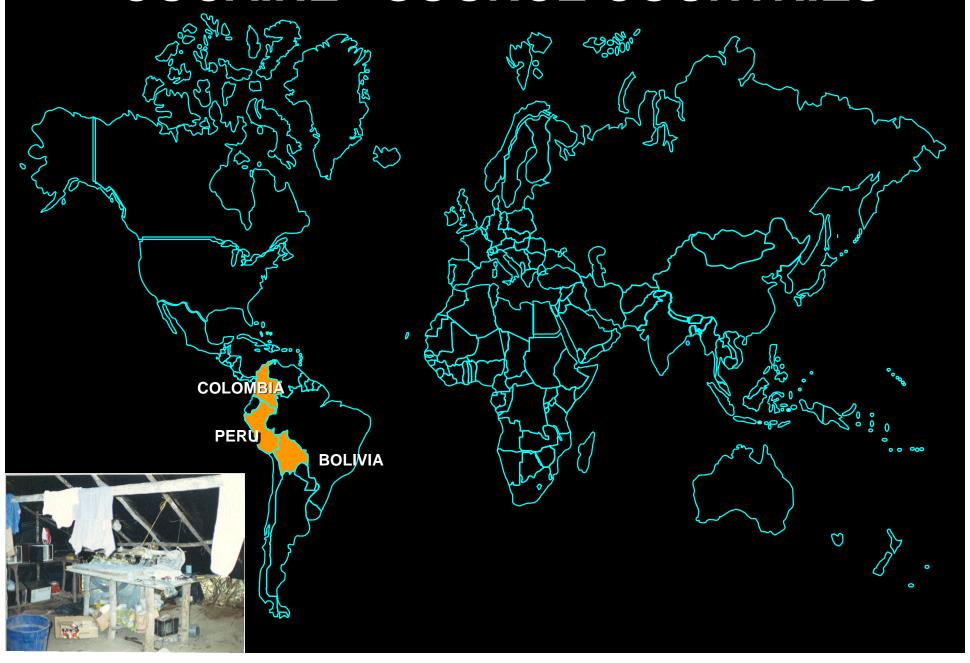




## GLOBAL COCAINE CONSUMPTION



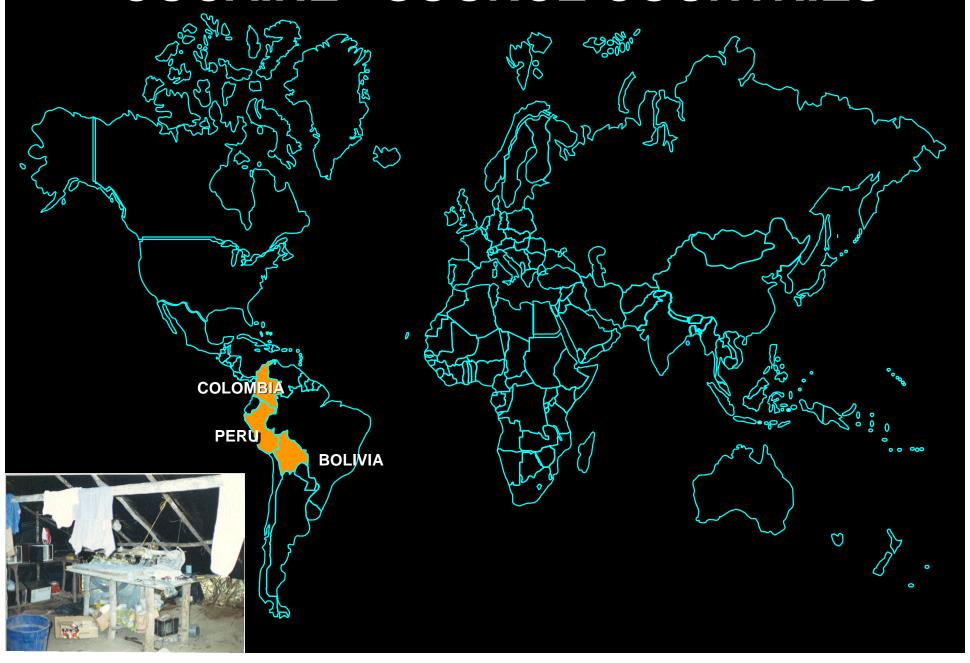
## COCAINE - SOURCE COUNTRIES



## **COCAINE - SOURCE COUNTRIES**



## COCAINE - SOURCE COUNTRIES



## COCAINE

#### **CHEMICALS**

POTASSIUM PERMANGANATE

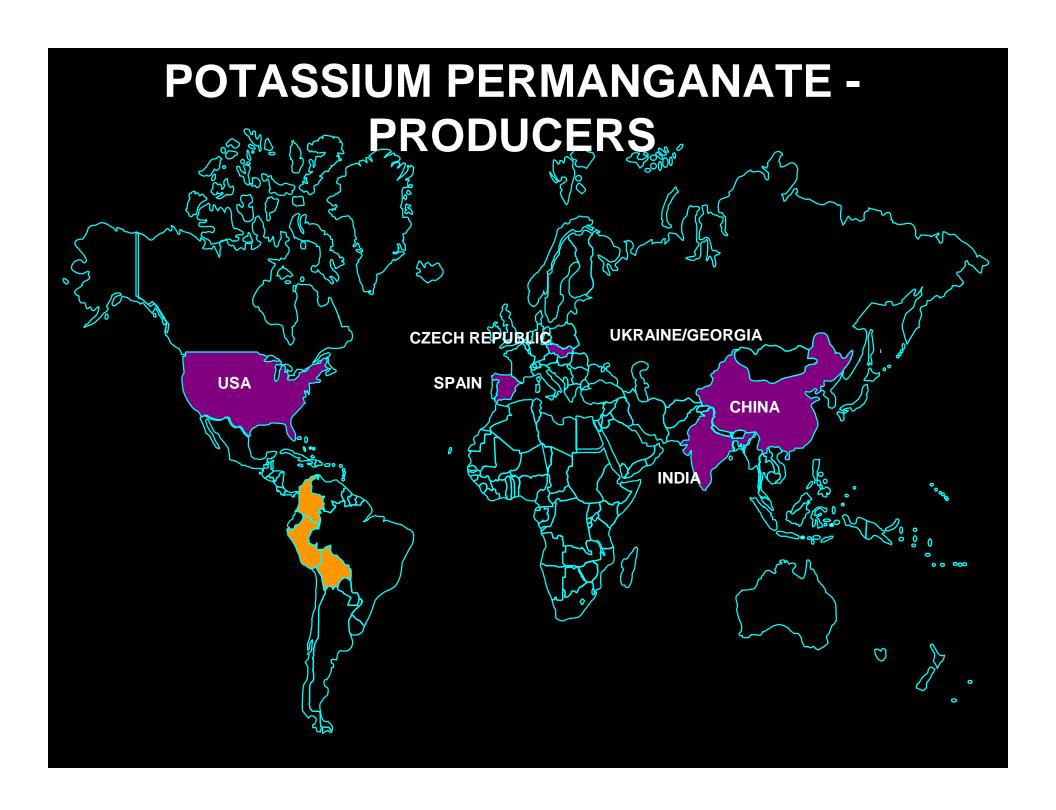
**ACETONE** 

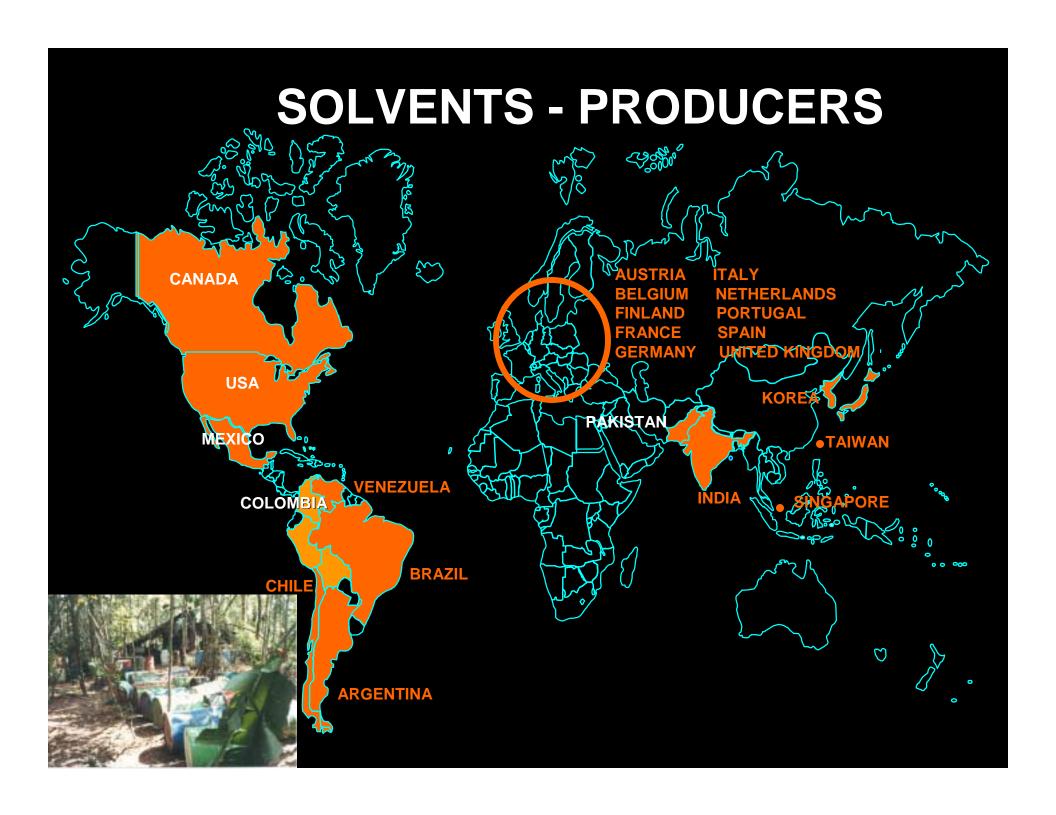
ETHYL ETHER

MEK/MIBK

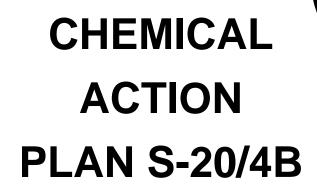
**TOLUENE** 

**ETHYL ETHER** 





## **UNGASS**



BRYYY



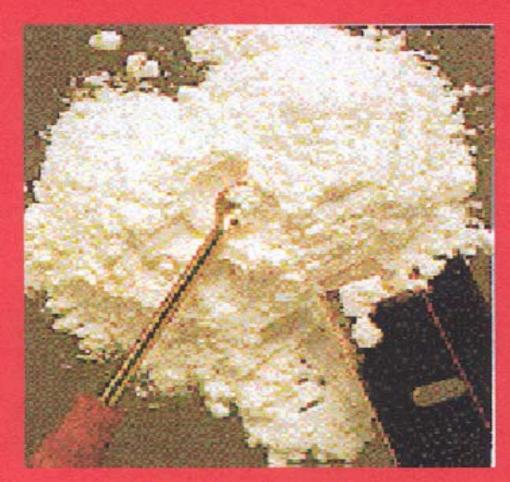
### POTASSIUM PERMANGANATE - KMnO4



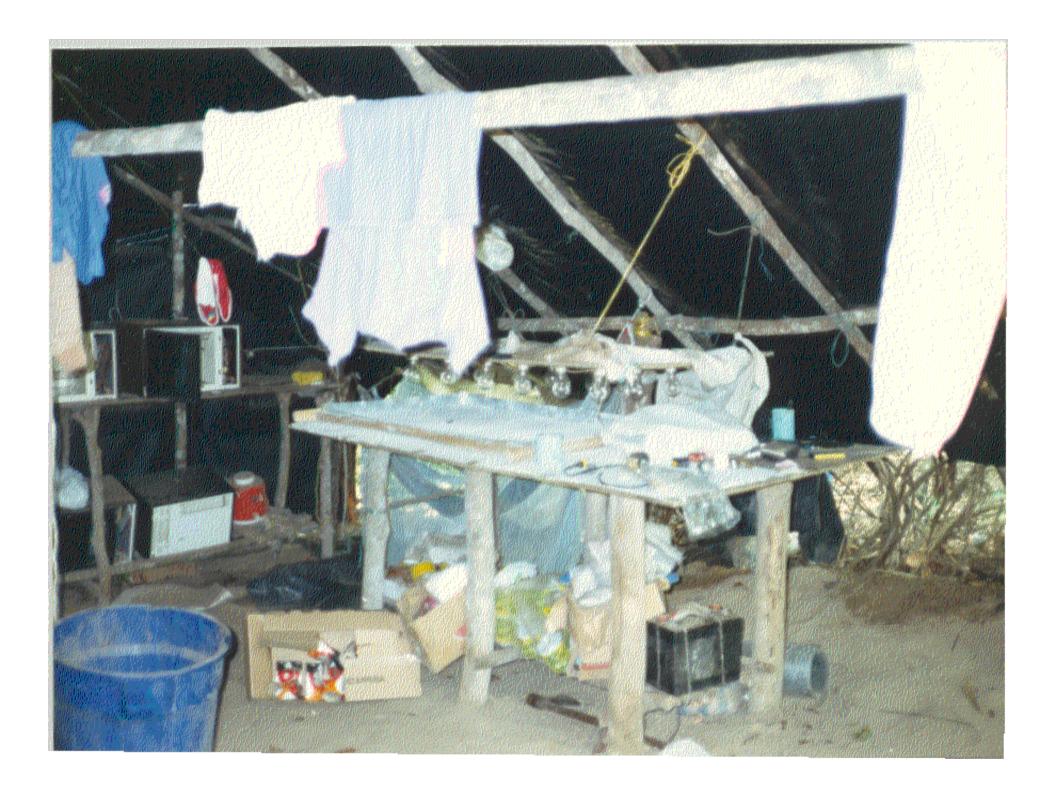


#### WHY TARGET POTASSIUM PERMANGANATE?

- CONTROLLED INTERNATIONALLY UNITED NATIONS
- HANDLED BY LEGITIMATE INDUSTRY AND THEREFORE PROVIDES AN AUDIT TRAIL
- MANUFACTURED IN A LIMITED NUMBER OF COUNTRIES, MAKING IT FEASIBLE TO MONITOR/CONTROL

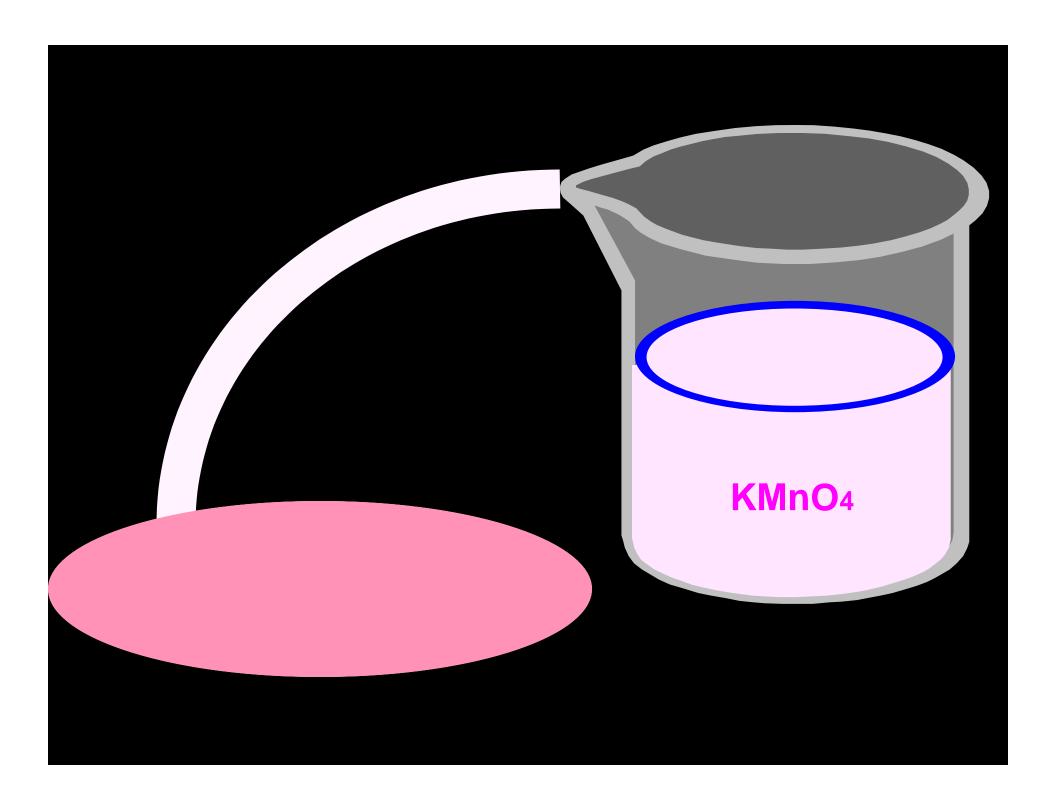


Powdered cocaine.









### INTERNATIONAL OPERATIONAL MEETING ON POTASSIUM PERMANGANATE MADRID, SPAIN - FEBRUARY 1999





#### Operation PURPLE Participants UK **Belgium** Netherlands **Szech Republic Slovak Republic Italy** USA Trail **Spain** Japan **Mexico** China Singapore Brazil **INTERPOL Uruguay** South Africa **WCO** Argentina **INCB**

#### THE GOALS OF THE ACTION PLAN ARE:

- TO INTERCEPT DIVERSION ATTEMPTS, IDENTIFY SUSPICIOUS COMPANIES /INDIVIDUALS
- TO GATHER INTELLIGENCE ON TRAFFICKERS'
  DIVERSION METHODS, IDENTIFY NEW TRAFFICKING
  ROUTES AND PATTERNS
- TO PROSECUTE ADMINISTRATIVE, CIVIL, CRIMINAL

#### **GUIDELINES**:

•EVERY POTASSIUM PERMANGANATE

TRANSACTION GREATER THAN 100 KILOGRAMS IS IDENTIFIED, MONITORED.

- EACH SHIPMENT IS TRACKED FROM THE PRODUCING COUNTRY THROUGH ALL TRANSIT COUNTRIES, TO THE IMPORTING COUNTRY.
- DESIGNATION OF CNA

#### **GUIDELINES**

- A REFERENCE NUMBER SHOULD BE ADDED TO THE "OPERATION PURPLE" FORM IDENTIFYING EACH SHIPMENT.
- THIS NUMBER SHOULD CONSIST OF THE ABBREVIATION OF THE NAME OF THE EXPORTING COUNTRY.

FOR EXAMPLE THE FIRST NOTIFICATION FROM THE U.S., OCCURRING IN JANUARY 2002, WOULD APPEAR AS FOLLOWS:

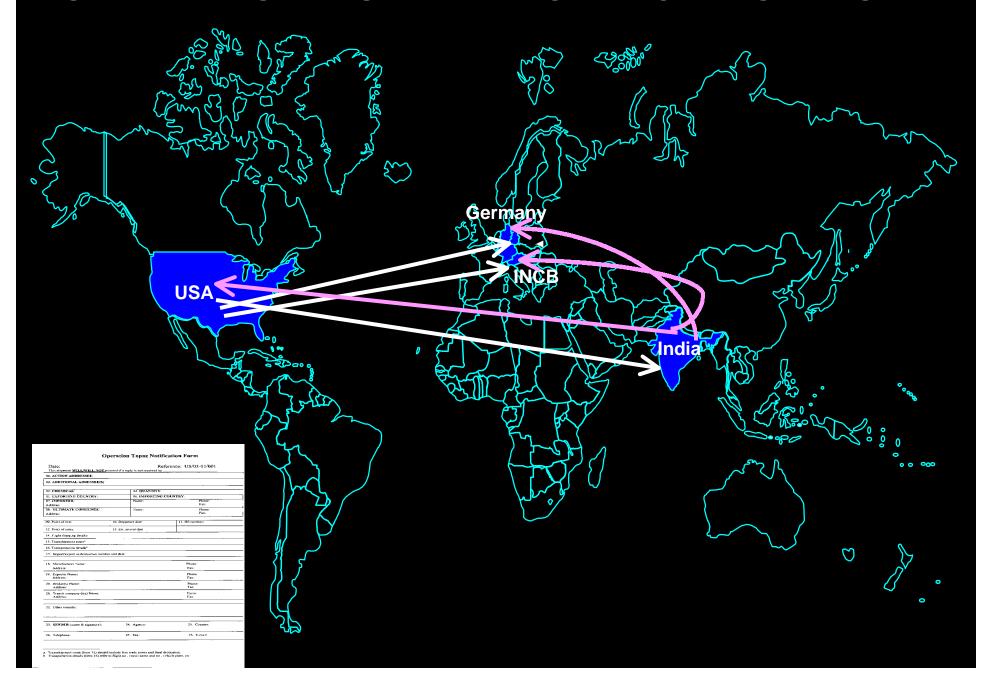
EXAMPLE US/01/2002

## **NOTIFICATION FORM**

#### **"OPERATION PURPLE"**

	Reference number:		••••	
1. ACTION ADDRESSEE:				
2. Additional Addressee:				
3. Additional Addressee:				
4. Sender:	5. Agency:	6. Co	6. Country:	
7. Telephone:	8: Fax:	9. E-	9. E-Mail:	
10. Date of Request:				
NOTE: Inform	nation should be provided to the e	xtent permitted by	national legislation.	
12. Chemical:	13. Harmonized Code:	14. (	14. Quantity:	
15. Export Country:	16. Departure Port:	17. Г	17. Departure Date:	
18. Import Country:	19. Entry Port:	20. Est. Arrival Date:		
21. Transshipment Route/Free Trade Zones:		22. 7	Transport Mode:	
23. Import Authorization No.:	24. Status of Shipments:	Shipments:		
25. Importer/Consignee: Name Address			Telephone: Fax:	
26. Other Remarks:				
27. Manufacturer or Name: Exporter:	Address:	Tele/Fax:		
28. Broker(s): Name	Address:	Tele/Fax:		
29. Transit Firm(s): Name	Address:	Tele/Fax:		
30. Transportation Details (Flight N	o./Vessel, etc.):			

### OPERATION PURPLE NOTIFICATION FORM



## SECOND INTERNATIONAL POTASSIUM PERMANGANATE MEETING - HONG KONG SAR



# OPERATION PURPLE PARTICIPANTS



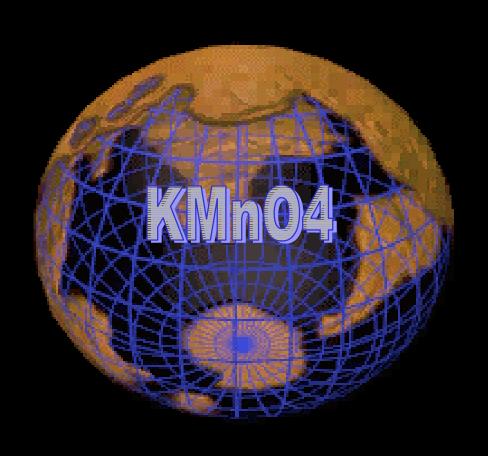


- 3,242 SHIPMENTS MONITORED
- 65,242,436 KILOGRAMS TRACKED
- 57 ARRESTS

## OPERATION PURPLE SEIZED AND STOPPED SHIPMENTS - TOTAL



## EMERGING TRENDS



#### **EFFECTS OF THE PP INITIATIVE**

• UNPRECEDENTED ADVANCES IN REGULATORY CONTROLS

• LAW ENFORCEMENT OPERATIONS

• CHANGES IN POTASSIUM PERMANGANATE INTERNATIONAL TRAFFICKING PATTERNS



# OPERATION PURPLE FAX TRANSMISSION \*\* SPECIAL ALERT \*\*

#### 20 Ton Shipment of Potassium Permanganate Stopped as a Result of Cooperation Among the Central National Authorities in The Netherlands and Colombia

As a result of Operation Purple Notification NL/04/003, issued by the Central National Authority (CNA) in The Netherlands (Economische Controledienst), the CNA in Colombia (Direccion Nacional De Estupefacientes) was alerted to the arrival of 20,000 kilograms of Potassium Permanganate (PP).

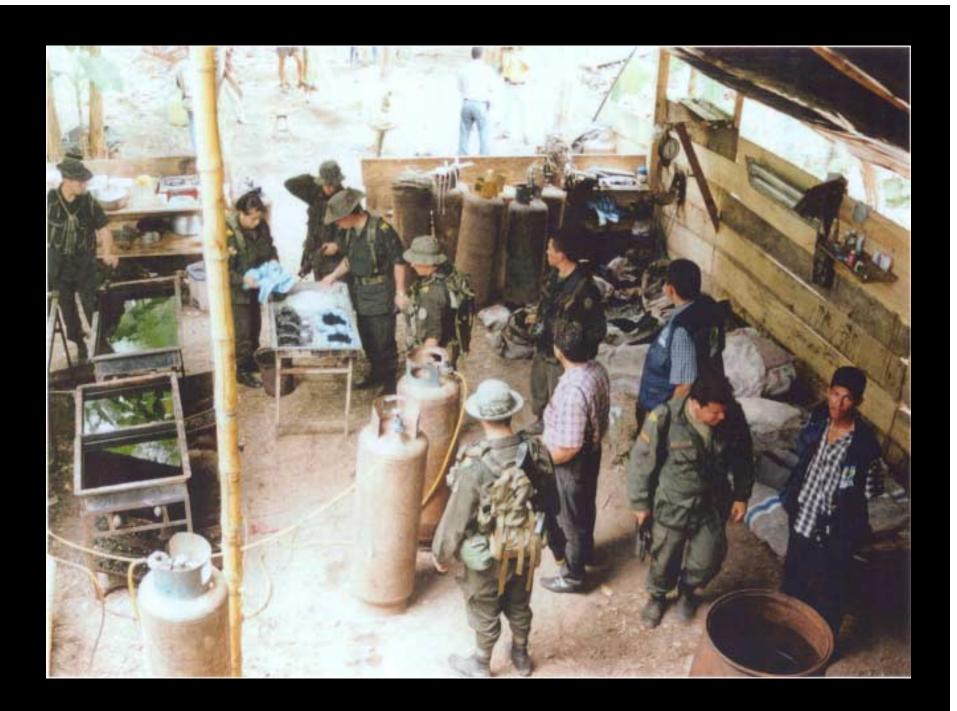
The importing company is Fabricantes e Importadores Colombianos Ltd. (FAEIMCOL LTD) which is located at Calle 60, No. 113, 68 Santa Fe De Bogota, Colombia. The (CNA) in Colombia advised that FAEIMCOL's license to import PP had been revoked. Based on this information and at the recommendation of the Joint Precursor Monitoring Unit in Germany, authorities in The Netherlands cancelled the export license, thereby stopping this shipment.

Please take this information into account when authorizing PP shipments to Colombia. Any changes in the status of this company will be reported immediately.

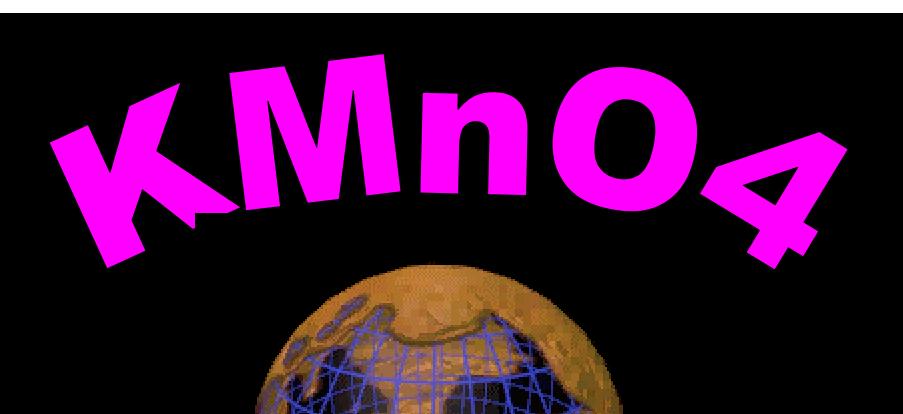


• THERE ARE CURRENTLY 63
NON-PARTICIPATING COUNTRIES
PURCHASING POTASSIUM
PERMANGANATE





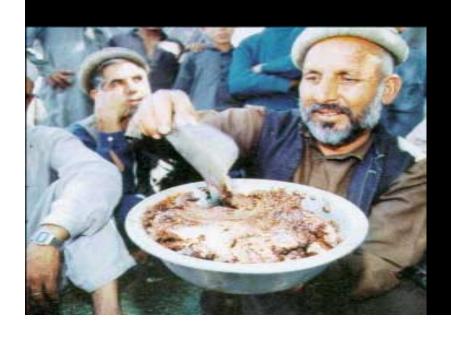






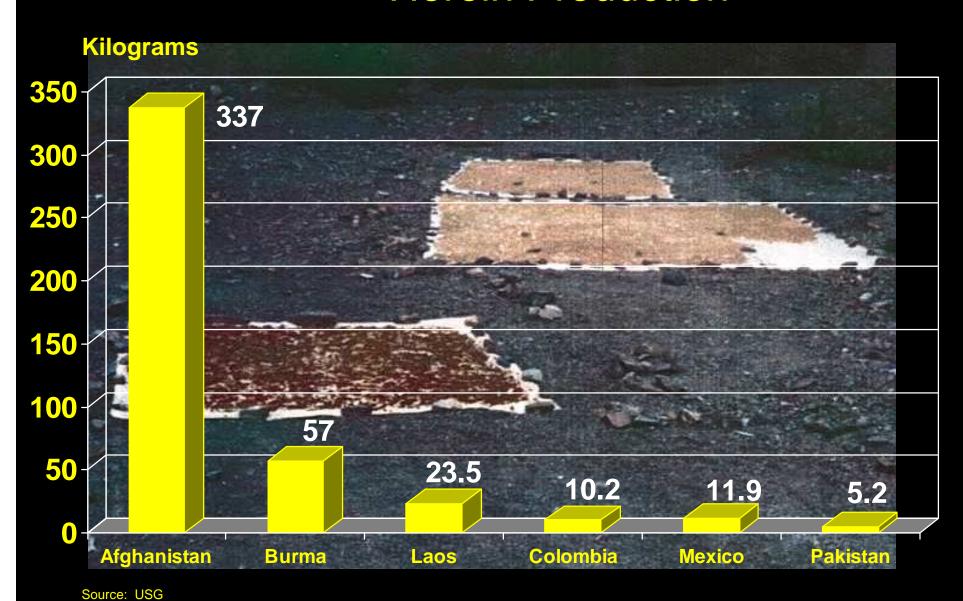


# HEROIN





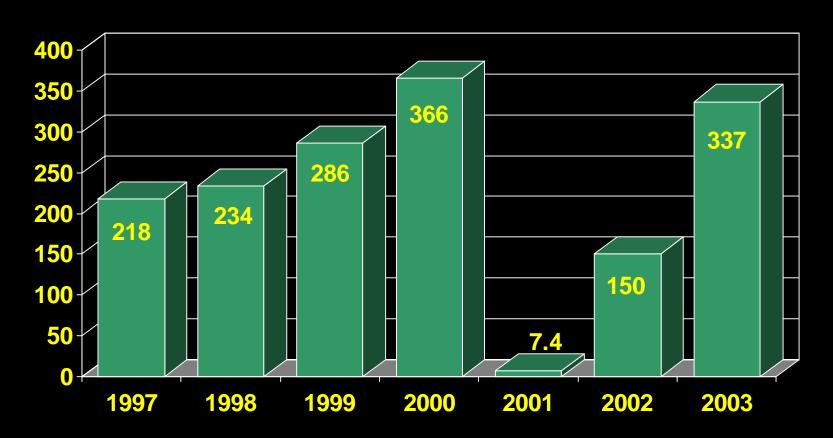
# 2003 Potential World Heroin Production



### Potential Heroin Production in Afghanistan 1997 – 2003

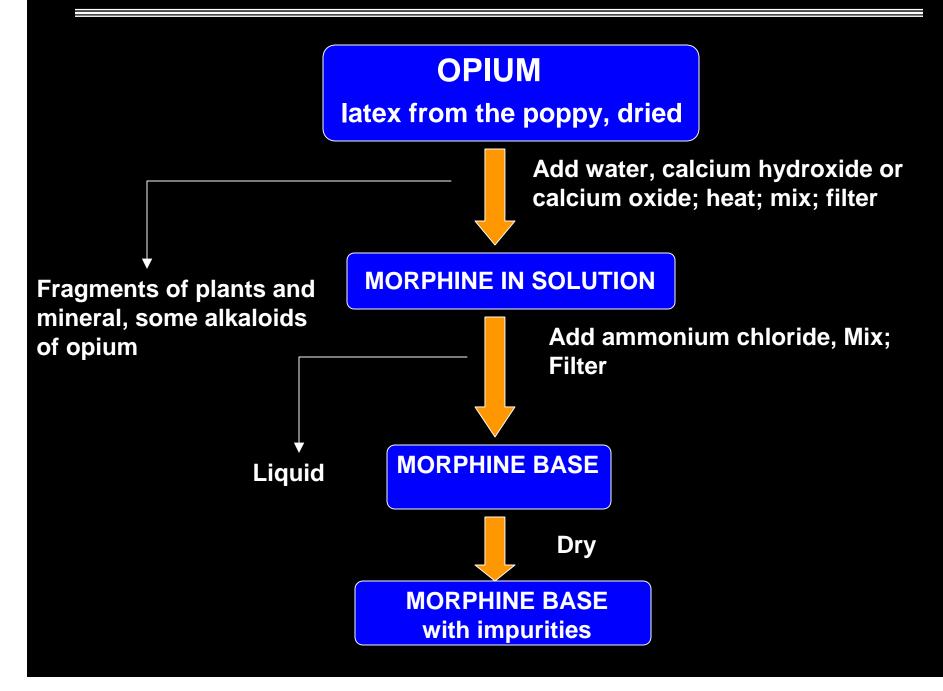
**Metric tons** 

78% of world total

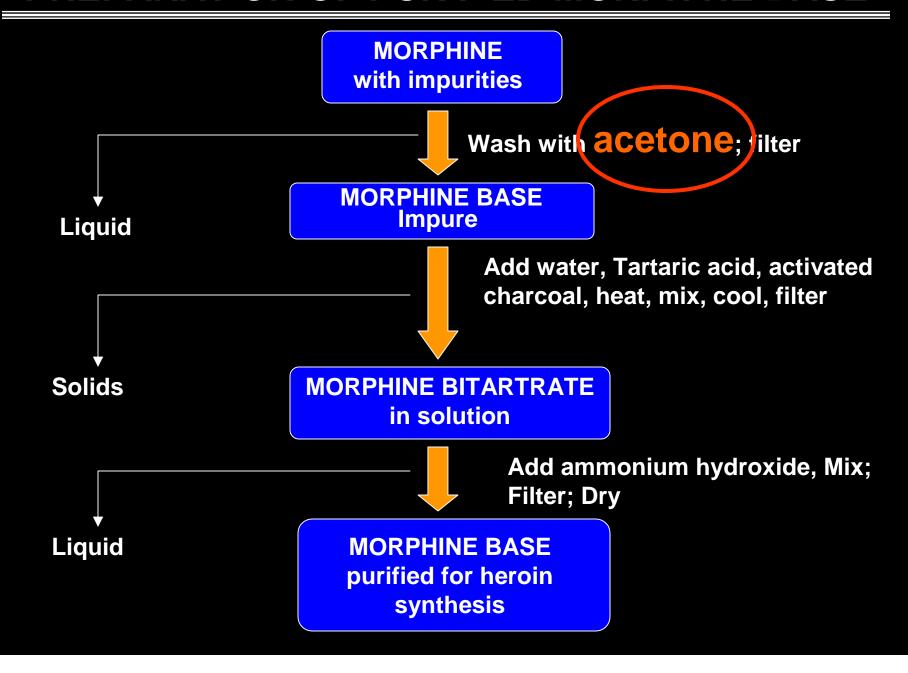


**Source: U.S. Government** 

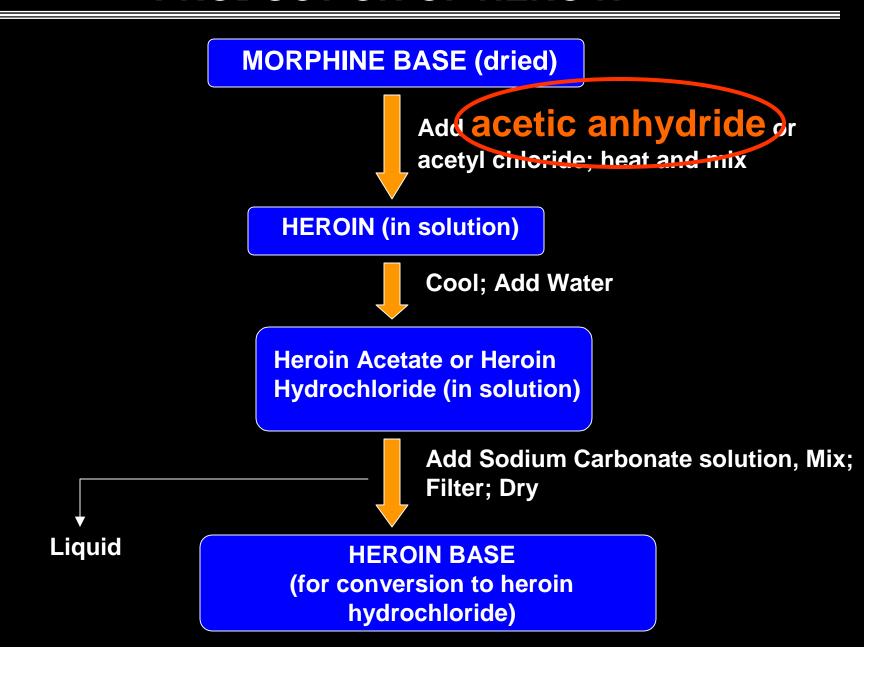
#### **EXTRACTION OF MORPHINE FROM OPIUM**



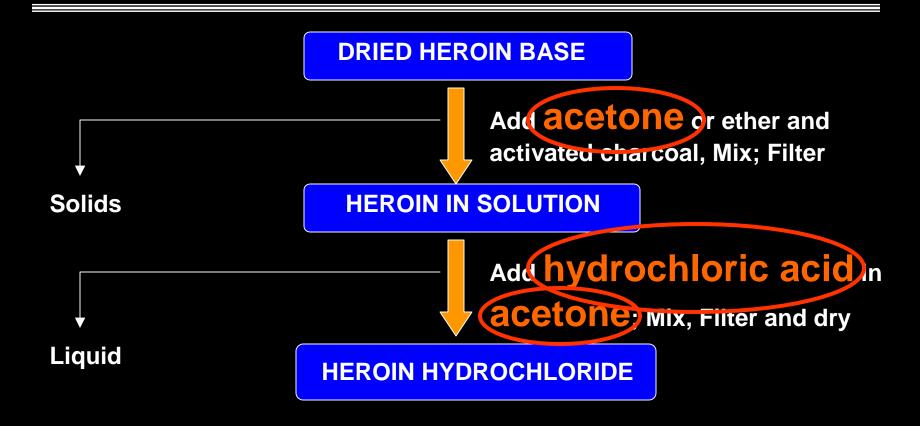
#### PREPARATION OF PURIFIED MORPHINE BASE



#### PRODUCTION OF HEROIN



#### PRODUCTION OF HEROIN HYDROCHLORIDE





# CHEMICALS REQUIRED FOR HEROIN PRODUCTION

#### SOLVENTS

- \*Acetone
- \*Ethyl ether
- \*Hydrochloric acid
- \*Methyl Ethyl Ketone

\*Methyl Isobutyl Ketone

#### **PRECURSOR**

\*Acetic Anhydride



## Acetic Anhydride Production

Worldwide Acetic Anhydride Production:

2.5 billion KGS

Acetic Anhydride needed for worldwide heroin production:

1.3 million KGS (0.5%)





## HEROIN SOURCE COUNTRIES



## **HEROIN SOURCE COUNTRIES**



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# **ACETIC ANHYDRIDE** RUSSIAN FEDERATION UNITED KINGDOM KAZAKHSTAN FRANCE UZBEKISTAN **USA** JAPAN **CHINA** MEXICO INDIA **ARGENTINA**

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# ACETIC ANHYDRIDE C4H6O3







#### **Licit Uses**

- \* Cellulose
- \* Acetates
- \* Cigarette filters
- \* Suit Linings
- \* Analgesics
- \* Explosives
- \* Dyeing
- \* Flavoring
- \* Fragrances
- \* Brake/drilling fluids
- \* Herbicides

# Clandestine Heroin Laboratory Bogota, Colombia



#### INTERNATIONAL ACETIC ANHYDRIDE TRACKING CONFERENCE - ANTALYA, TURKEY OCTOBER 16-19, 2000









# OPERATION TOPAZ - ANTALYA MEETING PARTICIPANTS



#### **OPERATION TOPAZ**

#### THE GOALS OF THE ACTION PLAN ARE:

- TO INTERCEPT DIVERSION ATTEMPTS, IDENTIFY SUSPICIOUS COMPANIES /INDIVIDUALS
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  DIVERSION METHODS, IDENTIFY NEW TRAFFICKING
  ROUTES AND PATTERNS
- TO PROSECUTE ADMINISTRATIVELY, CIVILLY, CRIMINALLY

### OPERATION TOPAZ GUIDELINES

- EVERY ACETIC ANHYDRIDE TRANSACTION GREATER
  THAN 100 LITERS IS IDENTIFIED AND MONITORED
- EACH SHIPMENT IS TRACKED FROM THE PRODUCING COUNTRY THROUGH EACH AND EVERY TRANSIT OR RELAY COUNTRY, TO THE IMPORTING CONSIGNEE, AND FINALLY TO THE END USER.
- IDENTIFY A CENTRAL NATIONAL AUTHORITY

